



# ROADLEAGUE

**ANSWER THE CALL**

The Office of Innovation





# AGENDA

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1) BACKGROUND

2) THE WHY

3) PROJECTS

4) NEXT STEPS

# WHAT IS R&D?

## RESEARCH & DEVELOPMENT

### DEFINITION

- Studies and tests that are done in order to design new or improved products and services

### TOOLS

- Scientific methods
- Experiments
- User-centered design
- Iterative / Agile

### BENEFITS

- Controlled risk
- Cost-avoidance
- Remain relevant to customer
- Evidence-based decisions

# CITY-ADMINISTERED R&D

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CITY of BOSTON

## NEW URBAN MECHANICS

*We work across departments and communities to explore, experiment, and evaluate new approaches to government and civic life.*

# HOW WE GOT HERE

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COLLABORATIVE  
INNOVATION



THE POLICY LAB  
BROWN UNIVERSITY



CROSS SECTOR  
SYMPOSIUM



R&D LEAGUE  
ALLIANCE



# THE WHY

## WE ARE BETTER TOGETHER

### CITY

- Top minds in the field
- Established R&D programs
- Multi-sector perspectives
- Collaborative grant funding



### PARTNERS

- Validity of testing in a living lab
- Strategic alignment
- Employee engagement
- Collaborative grant funding

## R&D LEAGUE MISSION

**Highly-skilled, cross-sector teams utilize scientific methods and data to investigate new ideas, make evidence-based decisions, and explore the frontier of innovation in order to transform City services for our 1.5 million residents.**



# OBJECTIVES

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DRIVE DATA-INFORMED  
DECISION MAKING



ENGAGE CITY  
EMPLOYEES & RESIDENTS  
IN NEW WAYS



DELIVER TOP-NOTCH  
CUSTOMER SERVICE  
EQUITABLY





















CREATE EFFICIENCIES TO  
MAINTAIN & IMPROVE  
FINANCIAL STABILITY



# PROJECTS

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- 1) SENSORS ON CITY VEHICLES   
- 2) ACTIVEVISION   
- 3) NEZ IMPACTS ESTIMATOR  
- 4) IDEA PORTAL  
- 5) CITY HALL TO GO    
- 6) R&D PROGRAM STRUCTURE    

# CITY VEHICLES DATA COLLECTION

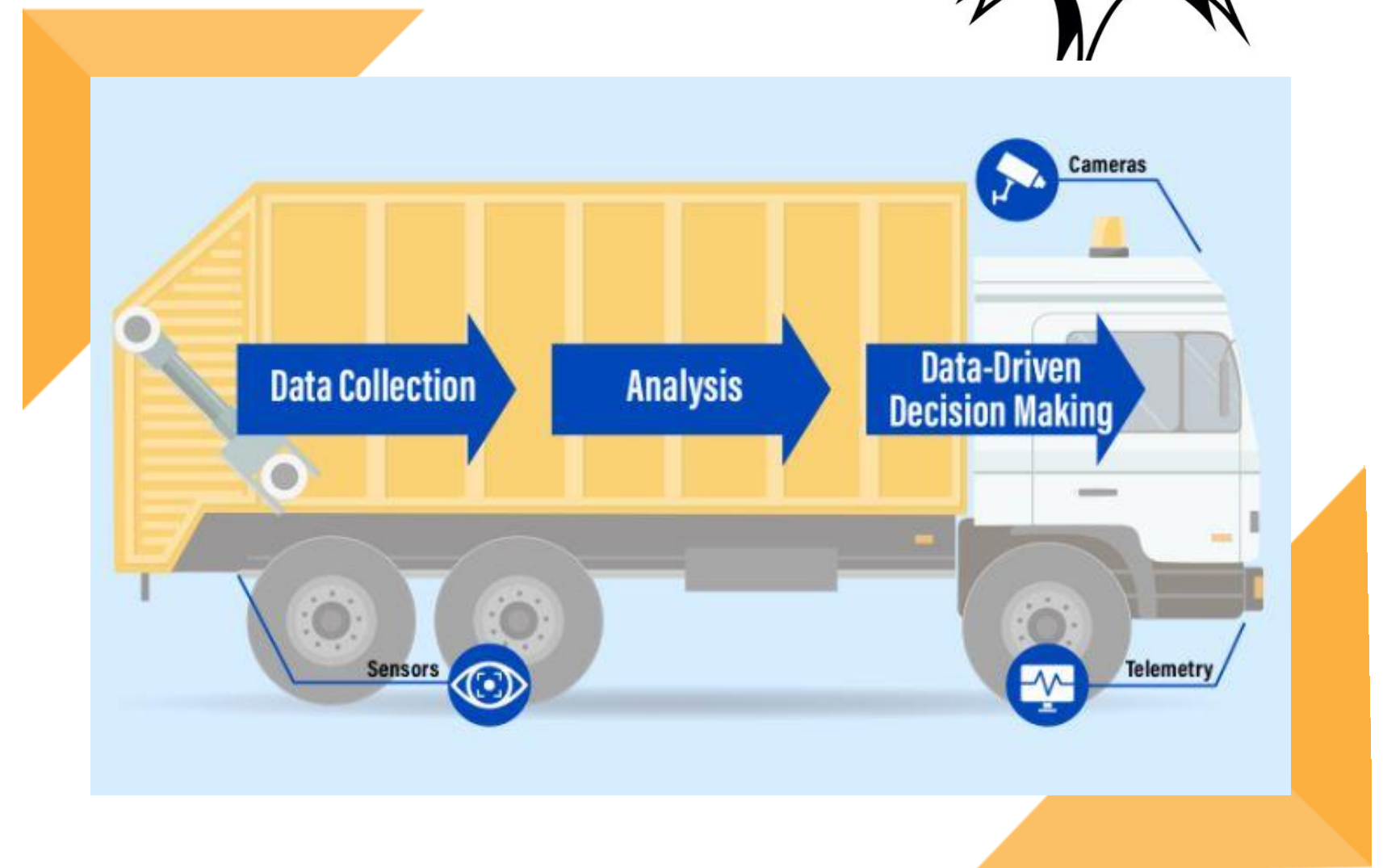
## OBJECTIVE

Equip City vehicles with sensors to identify and collect data on the City's infrastructure and areas of service need

## TEAM

SwRI, Solid Waste Management Dept., Transportation & Capital Improvement Dept.

\$208,000  
SwRI funding





# ACTIVEVISION

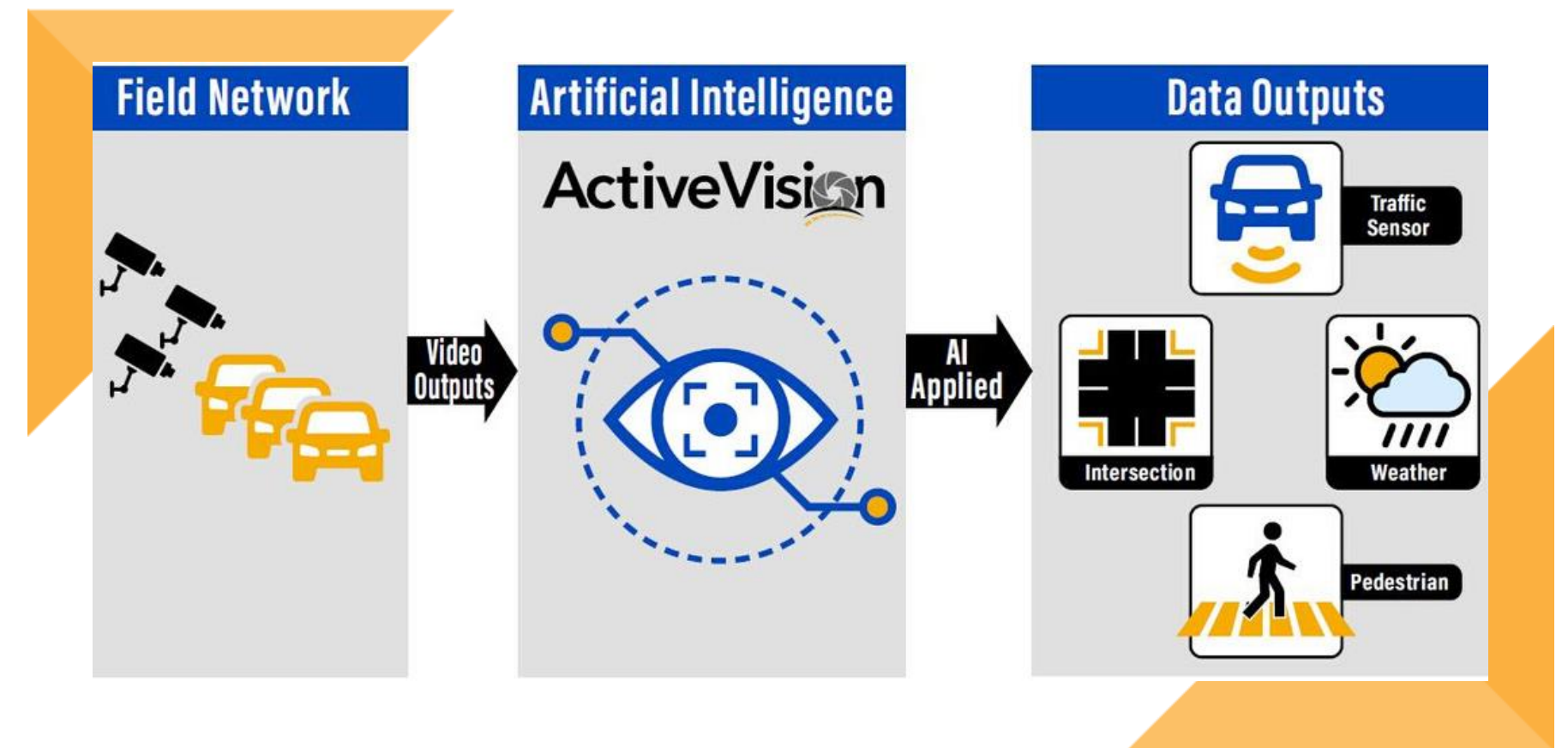
SwRI funded too!

## OBJECTIVE

Apply Artificial Intelligence to existing traffic camera feeds to provide automatic real-time alerts to TCI when traffic anomalies are detected

## TEAM

SwRI, Transportation & Capital Improvements Dept., Information Technology Services Dept.





# NEZ IMPACTS ESTIMATOR

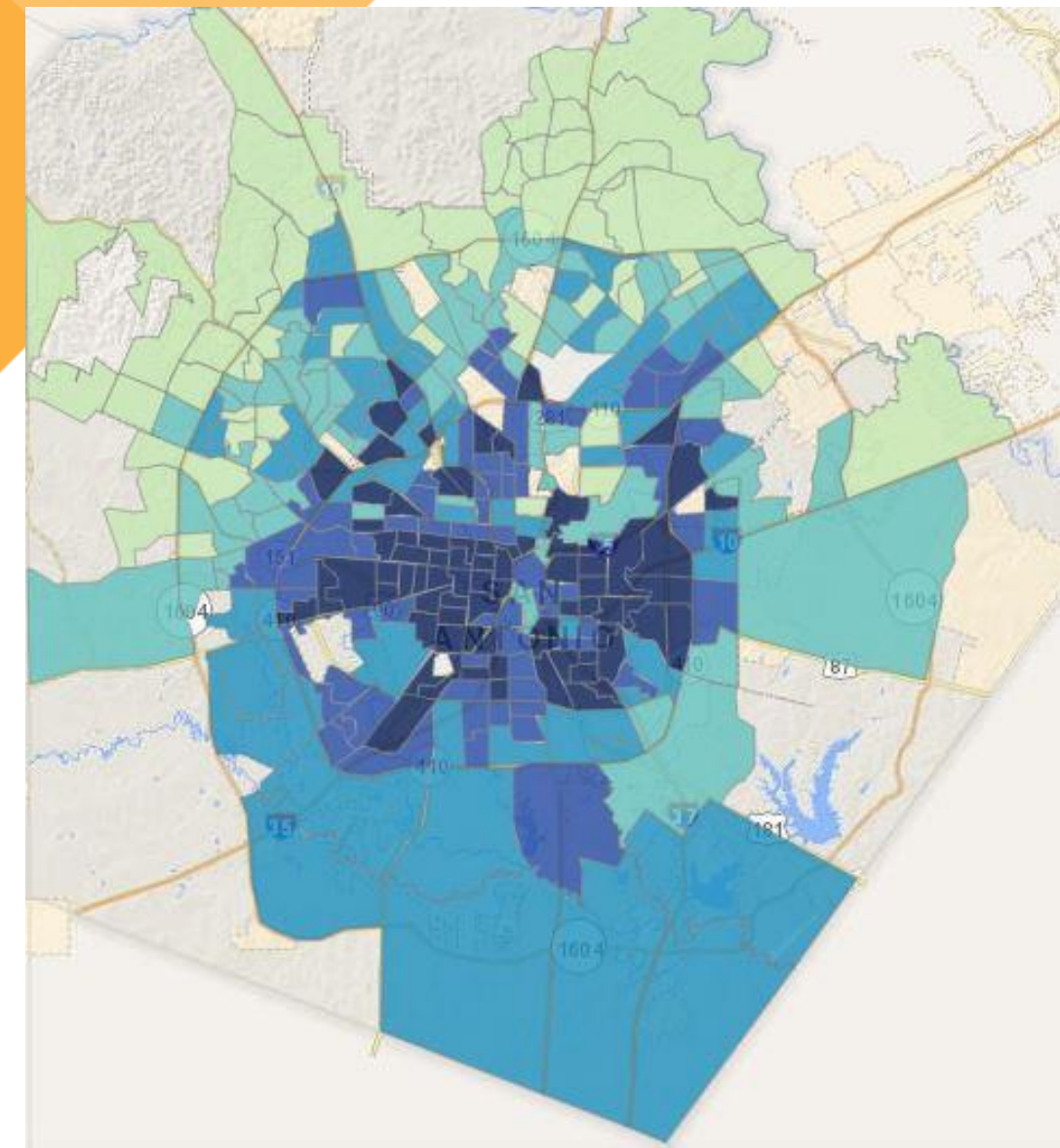
Architecture,  
Computer Science  
& Geography  
professors

## OBJECTIVE

Build an interactive mapping tool used to analyze data, determine Neighborhood Empowerment Zones (NEZ) and track the impact of affordable housing interventions over time

## TEAM

UTSA, Neighborhood & Housing Services Dept.



# IDEA PORTAL

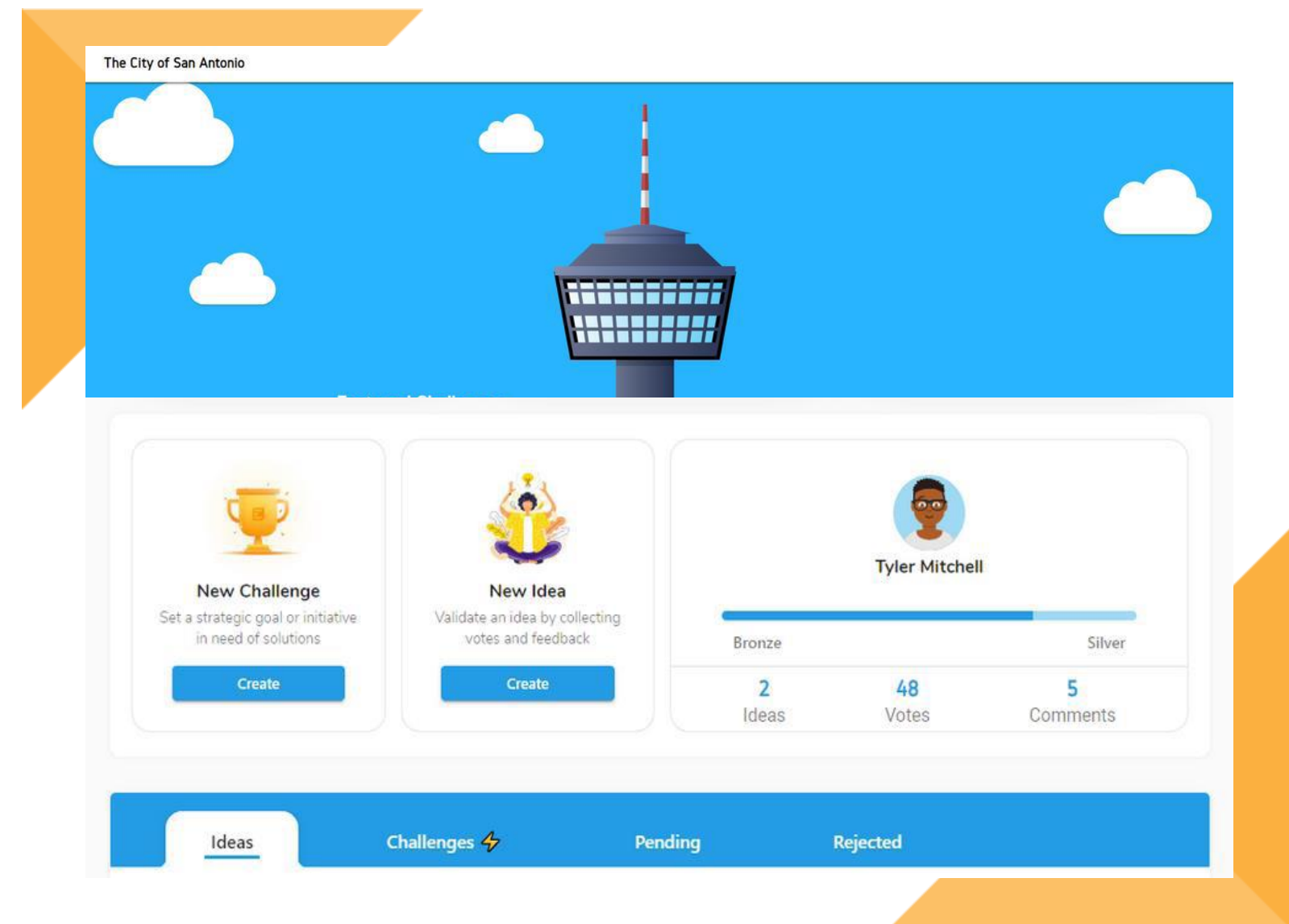
USAA-led  
H-C-D  
Workshop  
Feb 5th

## OBJECTIVE

Design and implement a digital process for the City to collect, explore and evaluate solutions to challenges

## TEAM

USAA Advisors  
Innovation, Information  
Technology Services Dept., 311



# CITY HALL TO GO

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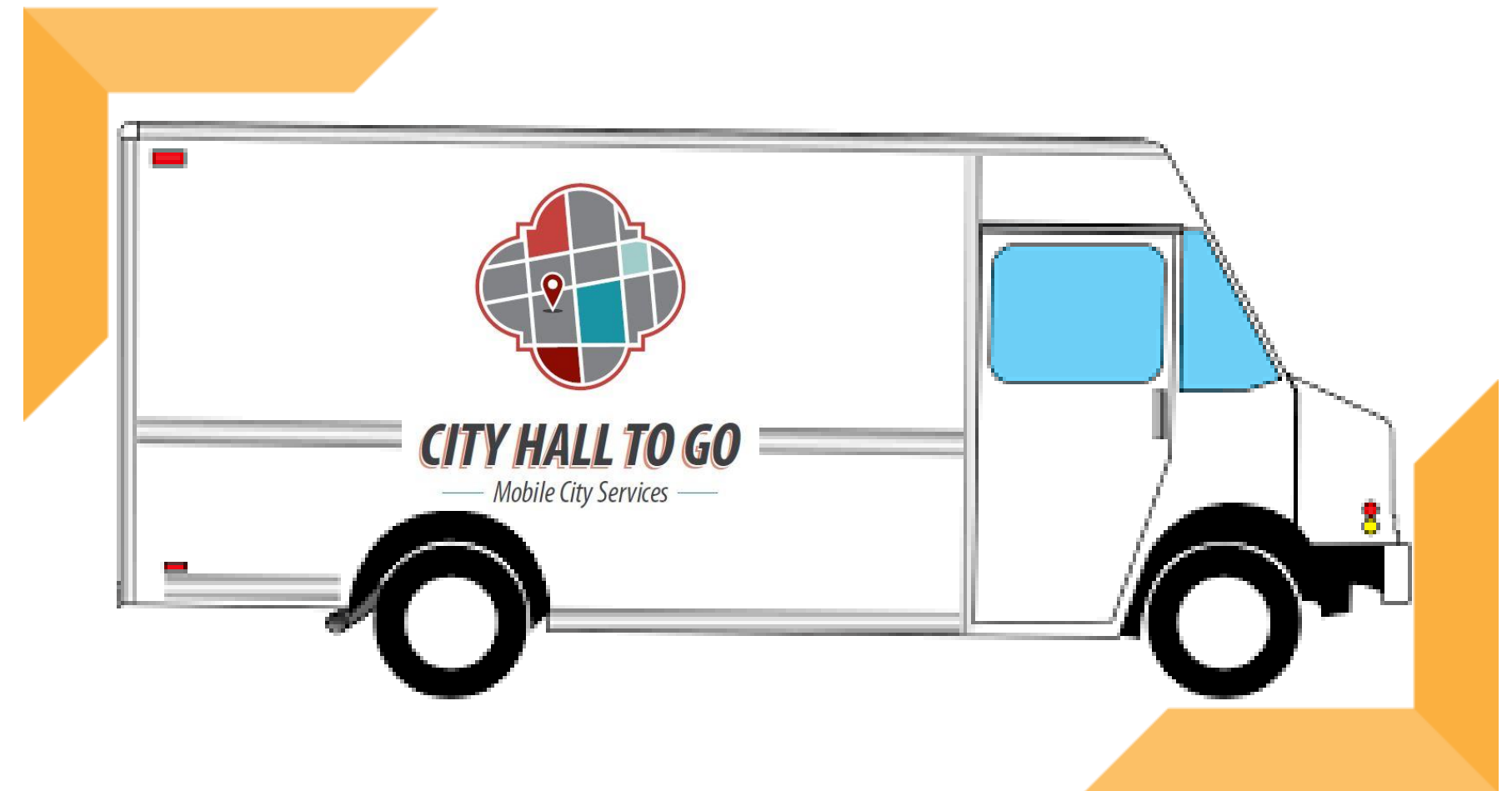
1<sup>st</sup> Event  
March 14 @  
Southside  
Lions Park

## OBJECTIVE

Identify when and where department outreach/intake efforts overlap & align those efforts in a mobile truck that will deliver them to low-income, hard-to-reach residents

## TEAM

Innovation, ITSD, NHSD, DHS, SAPL, SWMD, GPA, Health, 311, ACS, Parks, Municipal Courts, City Clerk





# R&D PROGRAM STRUCTURE

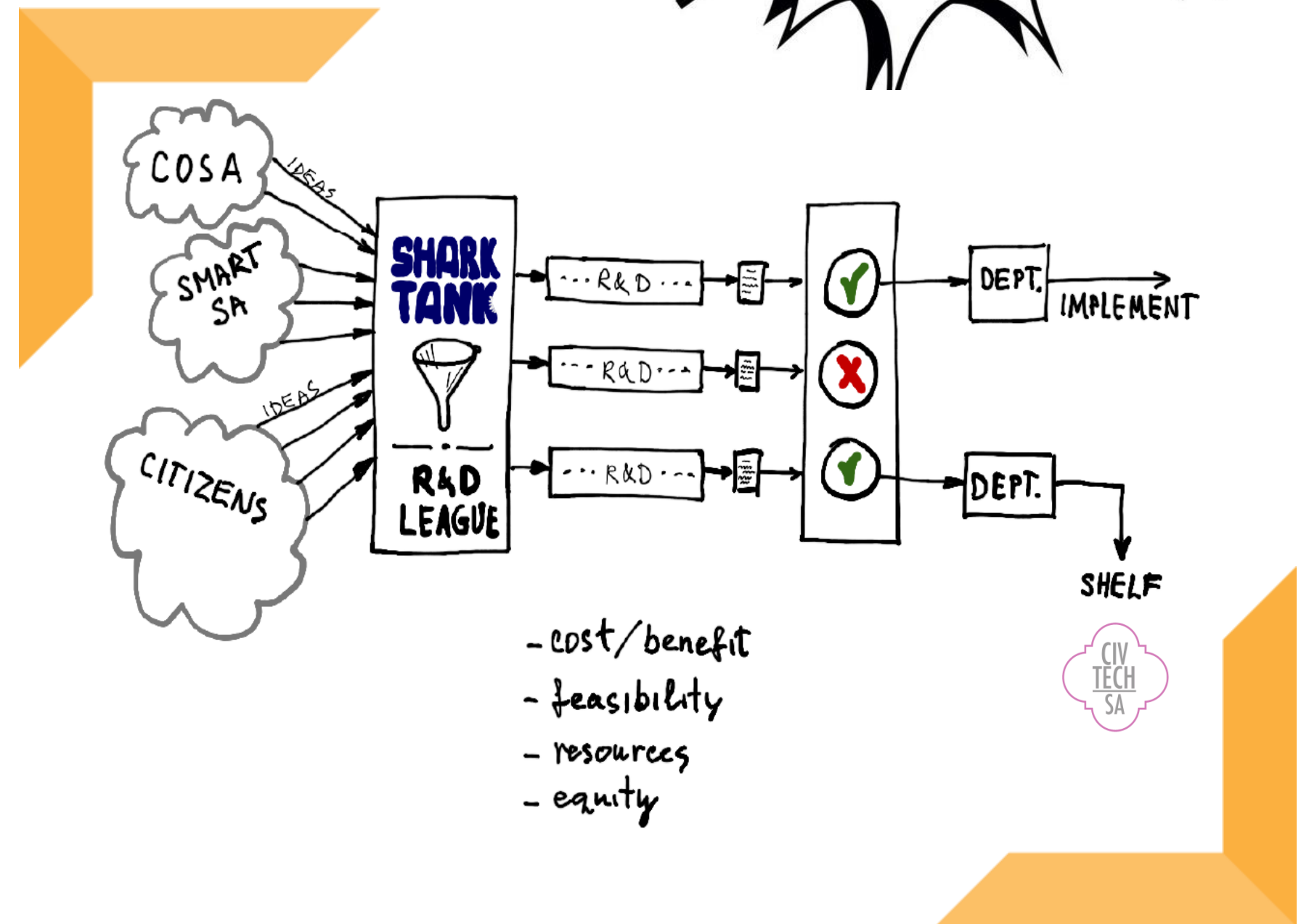
Built for San  
Antonio with  
San Antonio

## OBJECTIVE

Utilize 5 research and development projects to inform the development of a formalized structure for the selection, evaluation, and implementation of R&D projects for the City

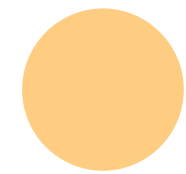
## TEAM

City of San Antonio, SwRI, USAA, UTSA and potentially others

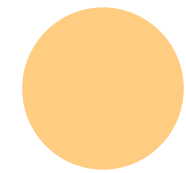


# COMPLETED

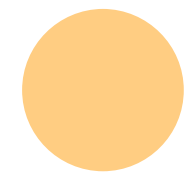
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Scoped 6 projects



Memorandum of Understanding



Secured funding for 3/6 projects

- Sensors on City Vehicles
- Idea Portal
- ActiveVision

# NEXT UP

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Complete project-based agreements

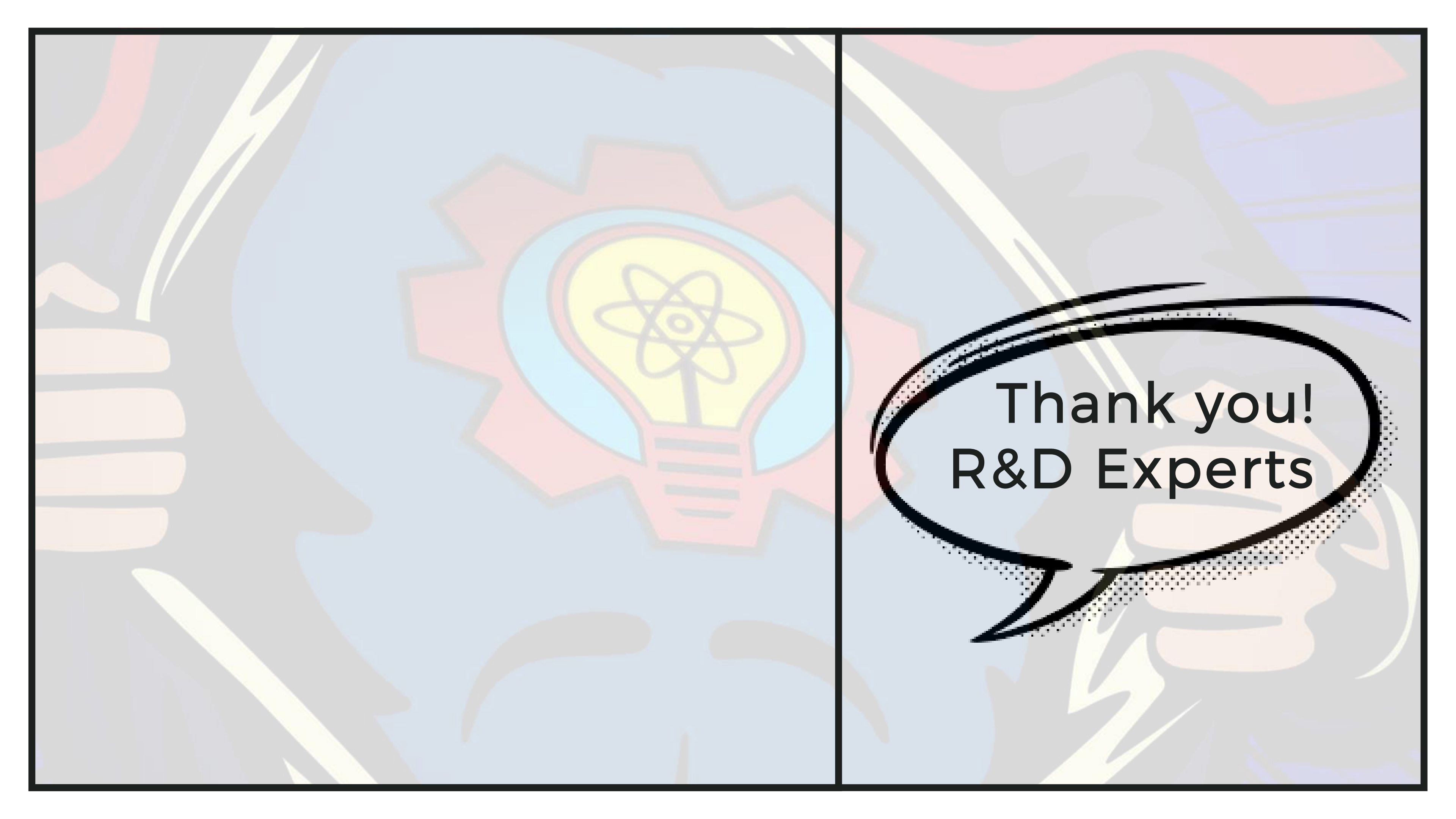


Launch Projects



Identify Additional Funding

- City Hall To Go
- NEZ Impacts Estimator
- R&D League



**Thank you!  
R&D Experts**





**ANSWER THE CALL**

The Office of Innovation